

HOMOGRAPHY TRANSFER FROM POINT MATCHES

ABSTRACT OF THE DISCLOSURE

5 An infinity homography for an image pair within an
image sequence is transferred to other image pairs within
the image sequence utilizing point matches for the subject
image pairs. An image set including the image pair for
which the infinity homography is known and a third image
10 are selected. Then intermediate parameters for homography
transfer for one image pair overlapping the known infinity
homography image pair is computed from the known infinity
homography and epipoles and fundamental matrices of the
overlapping image pairs, to derive the infinity homography
15 for the selected overlapping image pair. The process may
then be repeated until infinity homographies for all image
pairs of interest within the image sequence have been
derived.